

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY L.P.

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

5. Lease Serial No.

**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

**APPROVED** 5/16/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED  
MAY 10 2006

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

BRAD LANEY

Signature

Title

ENGINEERING SPECIALIST

Date

May 9, 2006

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

*Brad Laney*

Title

Date

5-9-06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
1. DJJ
2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **1/6/2006**

<b>FROM: (Old Operator):</b> N2115-Westport Oil & Gas Co., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024	<b>TO: ( New Operator):</b> N2995-Kerr-McGee Oil & Gas Onshore, LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024
---	--

WELL NAME	CA No.			Unit:	NATURAL BUTTES			
	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 921-7J	07	090S	210E	4304737594		Federal	GW	APD
NBU 921-28K	28	090S	210E	4304737245		Federal	GW	APD
NBU 1020-26K	26	100S	200E	4304737595		Federal	GW	NEW
NBU 1021-2C	02	100S	210E	4304737540		State	GW	NEW
NBU 1021-5E	05	100S	210E	4304737468		Federal	GW	APD
NBU 1021-13C	13	100S	210E	4304737721		State	GW	APD
NBU 1021-13A	13	100S	210E	4304737722		State	GW	APD
NBU 1021-13G	13	100S	210E	4304737723		State	GW	APD
NBU 1021-13K	13	100S	210E	4304737724		State	GW	APD
NBU 1021-13I	13	100S	210E	4304737725		State	GW	APD
NBU 1021-16L	16	100S	210E	4304737629		State	GW	APD
NBU 1021-18A	18	100S	210E	4304737431		Federal	GW	APD
NBU 1021-18B	18	100S	210E	4304737432		Federal	GW	APD
NBU 1021-21M	21	100S	210E	4304737433		Federal	GW	APD
NBU 1021-21O	21	100S	210E	4304737434		Federal	GW	APD
NBU 1021-21I	21	100S	210E	4304737435		Federal	GW	APD
NBU 1021-21J	21	100S	210E	4304737436		Federal	GW	APD
NBU 1021-21K	21	100S	210E	4304737437		Federal	GW	APD
NBU 1021-21C	21	100S	210E	4304737538		Federal	GW	APD
NBU 1021-23A	23	100S	210E	4304737596		Federal	GW	APD
NBU 1021-27C	27	100S	210E	4304737539		Federal	GW	APD
NBU 1022-5A	05	100S	220E	4304737353		Federal	GW	APD
NBU 1022-17F	17	100S	220E	4304737542		Federal	GW	APD
NBU 1022-17D	17	100S	220E	4304737543		Federal	GW	APD
NBU 1022-17H	17	100S	220E	4304737544		Federal	GW	APD
NBU 1022-17L	17	100S	220E	4304737545		Federal	GW	APD
NBU 1022-17J	17	100S	220E	4304737546		Federal	GW	APD
NBU 1022-17P	17	100S	220E	4304737547		Federal	GW	APD
NBU 1022-17N	17	100S	220E	4304737548		Federal	GW	APD
NBU 1022-18F	18	100S	220E	4304737549		State	GW	NEW
NBU 1022-19N	19	100S	220E	4304737597		Federal	GW	APD
NBU 1022-19L	19	100S	220E	4304737598		Federal	GW	APD
NBU 1022-19M	19	100S	220E	4304737599		Federal	GW	APD
NBU 1022-20L	20	100S	220E	4304737220		State	GW	APD
NBU 1022-20F	20	100S	220E	4304737221		State	GW	APD
NBU 1022-20D	20	100S	220E	4304737222		State	GW	APD
NBU 1022-20P	20	100S	220E	4304737354		Federal	GW	APD
NBU 1022-20J	20	100S	220E	4304737355		Federal	GW	APD
NBU 1022-20H	20	100S	220E	4304737356		Federal	GW	APD
NBU 1022-30N	30	100S	220E	4304737550		Federal	GW	APD
NBU 1022-30J	30	100S	220E	4304737551		Federal	GW	APD
NBU 1022-30I	30	100S	220E	4304737600		Federal	GW	APD

# OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
5. If **NO**, the operator was contacted on:

- 6a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- 6b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred
- 6c. Reports current for Production/Disposition & Sundries on: ok

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_

## DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 5/15/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/15/2006
3. Bond information entered in RBDMS on: 5/15/2006
4. Fee/State wells attached to bond in RBDMS on: 5/16/2006
5. Injection Projects to new operator in RBDMS on: \_\_\_\_\_
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

## BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: CO1203
2. Indian well(s) covered by Bond Number: RLB0005239
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG  
The Division sent response by letter on: \_\_\_\_\_

## LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

## COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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OMB No. 1004-0135  
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**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**UINTAH COUNTY, UTAH**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address  
**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)  
**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
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	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.  
 KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

**RECEIVED**  
**MAY 10 2006**

**BLM BOND = C01203**  
**BIA BOND = RLB0005239**

**APPROVED 5116106**  
*Earlene Russell*  
**Division of Oil, Gas and Mining**  
**Earlene Russell, Engineering Technician**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) <b>RANDY BAYNE</b>	Title <b>DRILLING MANAGER</b>
Signature <i>Randy Bayne</i>	Date <b>May 9, 2006</b>

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: ML-22973	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT	
2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY, L.P.				9. WELL NAME and NUMBER: NBU 1022-18F	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078			PHONE NUMBER: (435) 781-7060	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2175' FNL 1425' FWL AT PROPOSED PRODUCING ZONE:				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SEW 18 10S 22E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 21 MILES SOUTHEAST OF OURAY, UTAH				12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1425'		16. NUMBER OF ACRES IN LEASE: 585.78		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 585.78	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C		19. PROPOSED DEPTH: 8,800		20. BOND DESCRIPTION: RLB0005238	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5148.5' GL		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION: TO BE DETERMINED	

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
14"				40				
12 1/4"	9 5/8"	32.3#	H-40	2,100	PREM CMT	265 SX	1.18	15.6
7 7/8"	4 1/2"	11.6#	I-80, LTC	8,800	PREM LITE II	440 SX	3.38	11
					50/50 POZ G	1330 SX	1.31	14.3

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) DEBRA DOMENICI TITLE ASSOC. ENVIRONMENTAL ANALYST  
SIGNATURE *Debra Domenici* DATE 12/14/2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-37549

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: 07-15-06  
By: *[Signature]*

**RECEIVED  
DEC 20 2005**

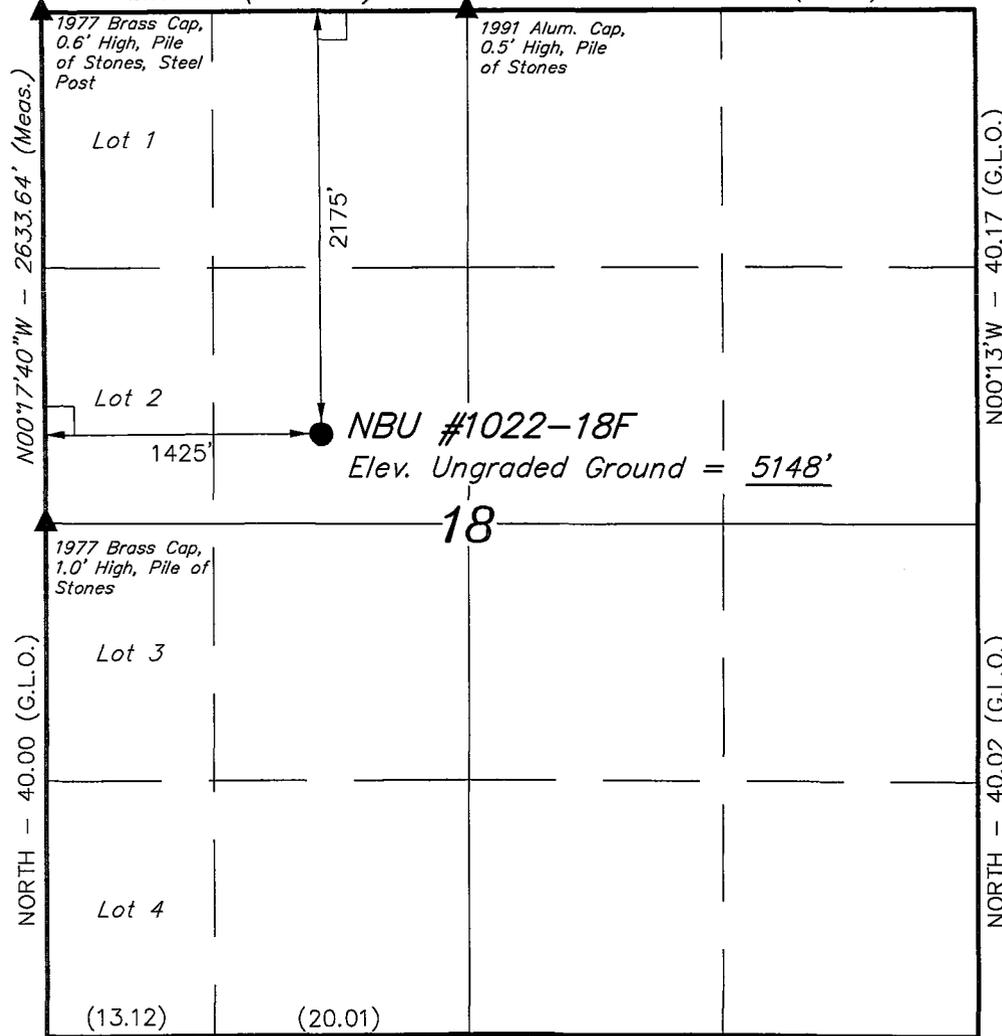
DIV. OF OIL, GAS & MINING

# T10S, R22E, S.L.B.&M.

S89°44'W - G.L.O. (Basis of Bearings)

2202.65' (Measured)

S89°44'W - 40.07 (G.L.O.)



N00°17'40"W - 2633.64' (Meas.)

NORTH - 40.00 (G.L.O.)

R  
21  
E

S89°32'W - 33.13 (G.L.O.)

N89°54'W - 40.07 (G.L.O.)

N00°13'W - 40.17 (G.L.O.)

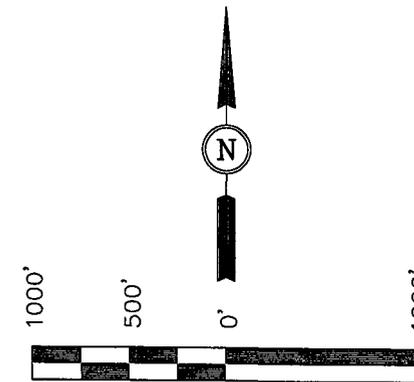
NORTH - 40.02 (G.L.O.)

## WESTPORT OIL AND GAS COMPANY, L.P.

Well location, NBU #1022-18F, located as shown in the SE 1/4 NW 1/4 of Section 18, T10S, R22E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. ...*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

Revised: 12-05-05 C.H.

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

### LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

LATITUDE = 39°57'01"

LONGITUDE = 109°29'05"

SCALE 1" = 1000'	DATE SURVEYED: 3-8-01	DATE DRAWN: 3-23-01
PARTY J.F. B.P. C.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE COASTAL OIL & GAS CORP.	

NBU 1022-18F  
SEW SEC 18-T10S-R22E  
UINTAH COUNTY, UTAH  
ML-22973

ONSHORE ORDER NO. 1

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1430'
Wasatch	4550'
Mesaverde	6700'
TD	8800'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1430'
Gas	Wasatch	4550'
Gas	Mesaverde	6700'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

*Please refer to the attached Drilling Program.*

4. **Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program.*

5. **Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

6. **Evaluation Program:**

*Please refer to the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8800' TD, approximately equals 5456 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3520 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please refer to the attached Drilling Program.*

10. **Other Information:**

*Please refer to the attached Drilling Program.*



  
**Westport Oil and Gas Company, L.P.**  
**DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	0.68*****	1.39	4.28
PRODUCTION	4-1/2"	0 to 8800	11.60	I-80	LTC	7780	6350	201000
						2.34	1.21	2.26

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)
- MASP 3326 psi

\*\*\*\*\* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
<b>Option 1</b>	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>					
<b>Option 2</b>	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,050'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	60%	11.00	3.38
	TAIL	4,750'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1330	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 15% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

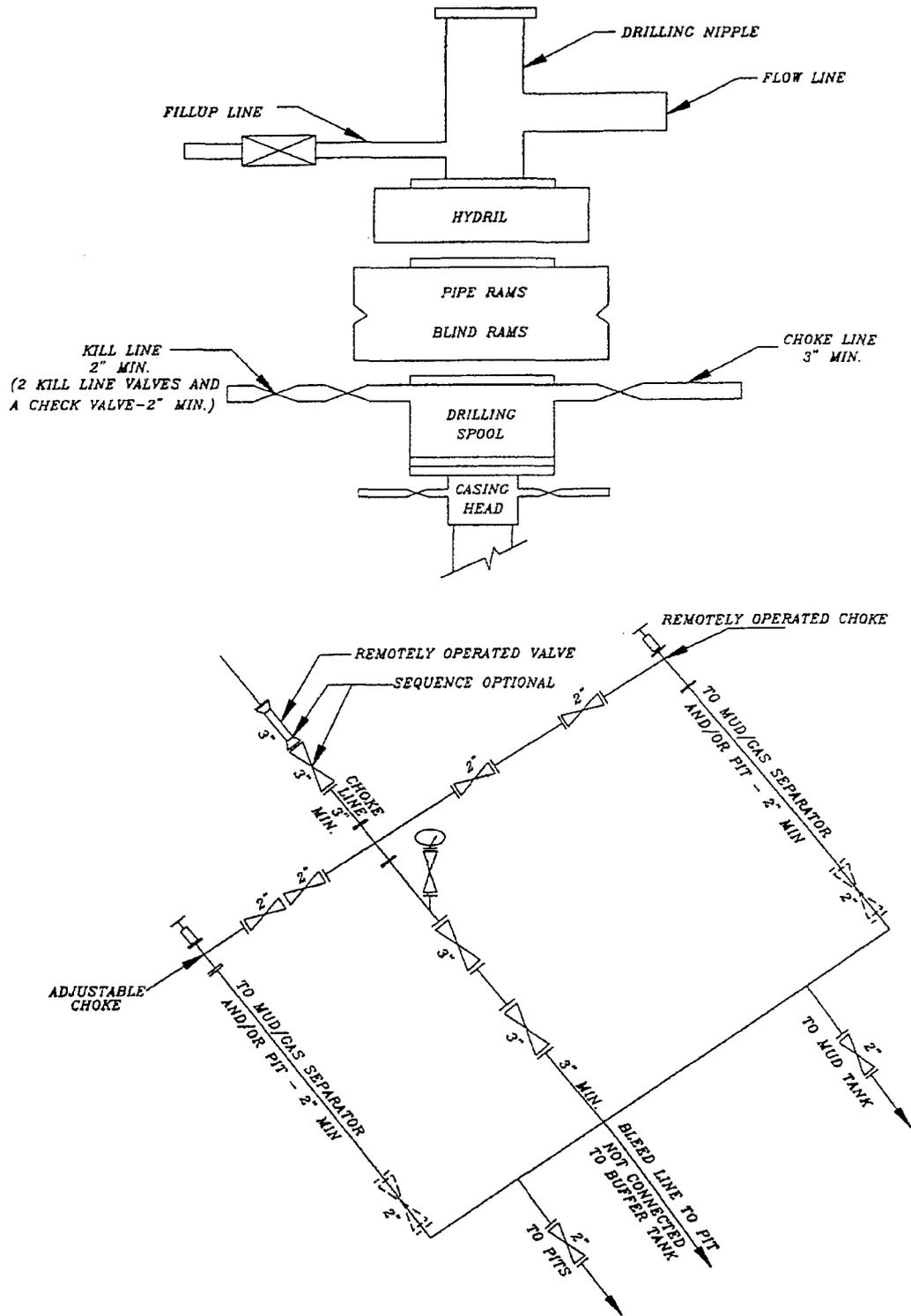
DRILLING ENGINEER: \_\_\_\_\_  
Brad Laney

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT: \_\_\_\_\_  
Randy Bayne

DATE: \_\_\_\_\_

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU 1022-18F  
SENW SEC 18-T10S-R22E  
Uintah County, UT  
ML-22973

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Approximately 0.5 miles of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

***Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.***

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately 5600' of pipeline is proposed. Refer to Topo D for the proposed pipeline.

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

**8. Ancillary Facilities**

None are anticipated.

**9. Well Site Layout: (See Location Layout Diagram)**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

#### 10. Plans for Reclamation of the Surface:

##### *Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

##### *Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. **Surface Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

12. **Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey has been completed and is attached.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

13. **Lessee's or Operators's Representative & Certification:**

Debra Domenici  
Associate Environmental Analyst  
Westport O&G Co.  
1368 South 1200 East.  
Vernal, UT 84078  
(435) 781-7060

Randy Bayne  
Drilling Manager  
Westport O&G Co.  
1368 South 1200 East  
Vernal, UT 84078  
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Westport O&G Co. is considered to be the operator of the subject well. Westport O&G Co. agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005236.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Debra Domenici  
Debra Domenici

12/14/2005  
Date

# **WESTPORT OIL AND GAS COMPANY, L.P.**

## **NBU #1022-18F SECTION 18, T10S, R22E, S.L.B.&M.**

**PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES ON STATE HIGHWAY 88 TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION FROM OURAY APPROXIMATELY 11.5 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING OILFIELD SERVICE ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 4.2 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; PROCEED IN A NORTHEASTERLY, DIRECTION APPROXIMATELY 0.8 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE PROPOSED LOCATION.**

**TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED LOCATION IS APPROXIMATELY 52.0 MILES.**

# WESTPORT OIL AND GAS COMPANY, L.P.

NBU #1022-18F

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 18, T10S, R22E, S.L.B.&M.



PHOTO: VIEW FROM LOCATION STAKE TO CORNER #1

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

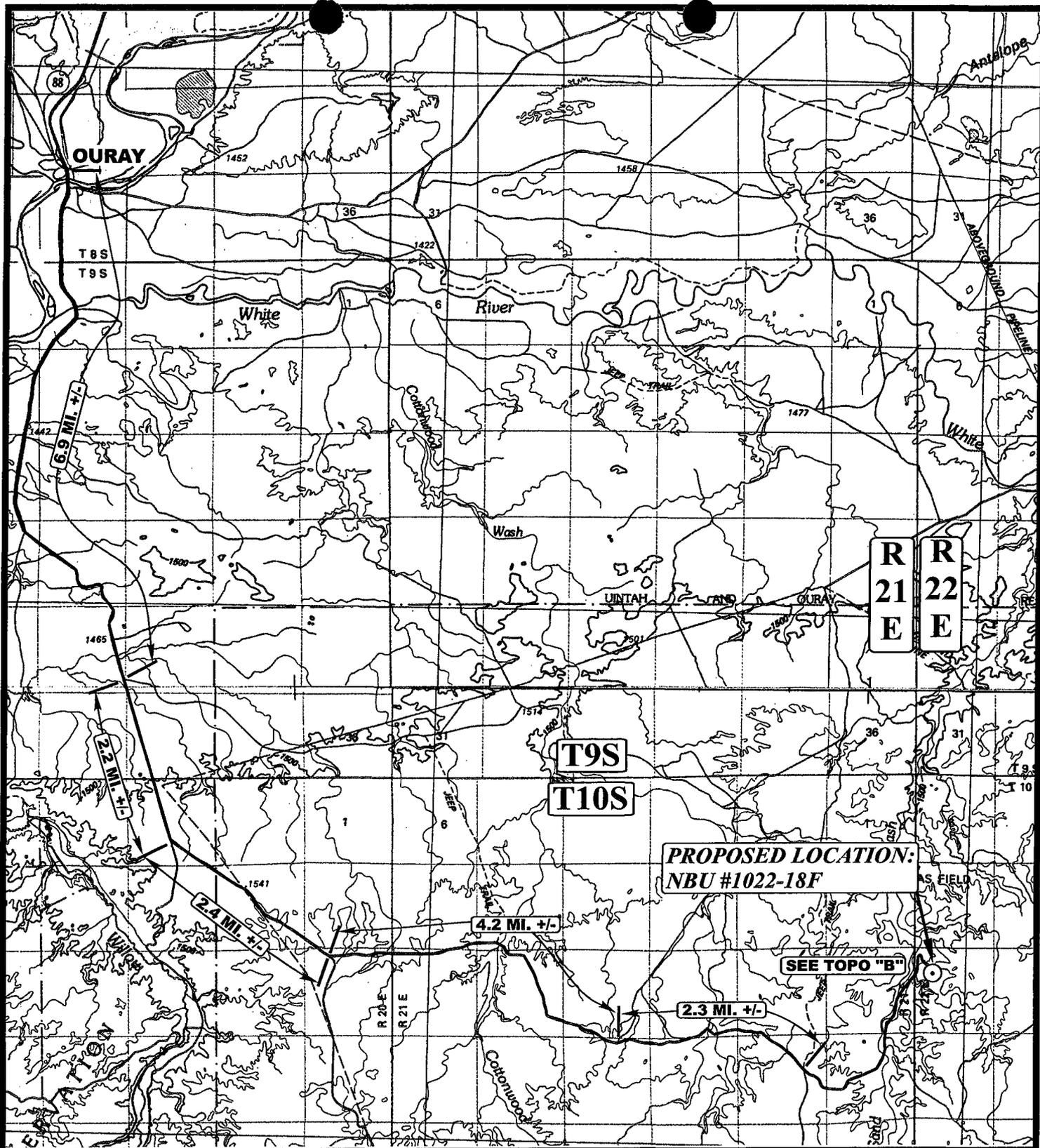
CAMERA ANGLE: NORTHEASTERLY



**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

- Since 1964 -

LOCATION PHOTOS	3	22	01	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: J.F.	DRAWN BY: P.M.	REV: 12-05-05	C.H.	



**LEGEND:**

○ PROPOSED LOCATION

**WESTPORT OIL AND GAS COMPANY, L.P.**

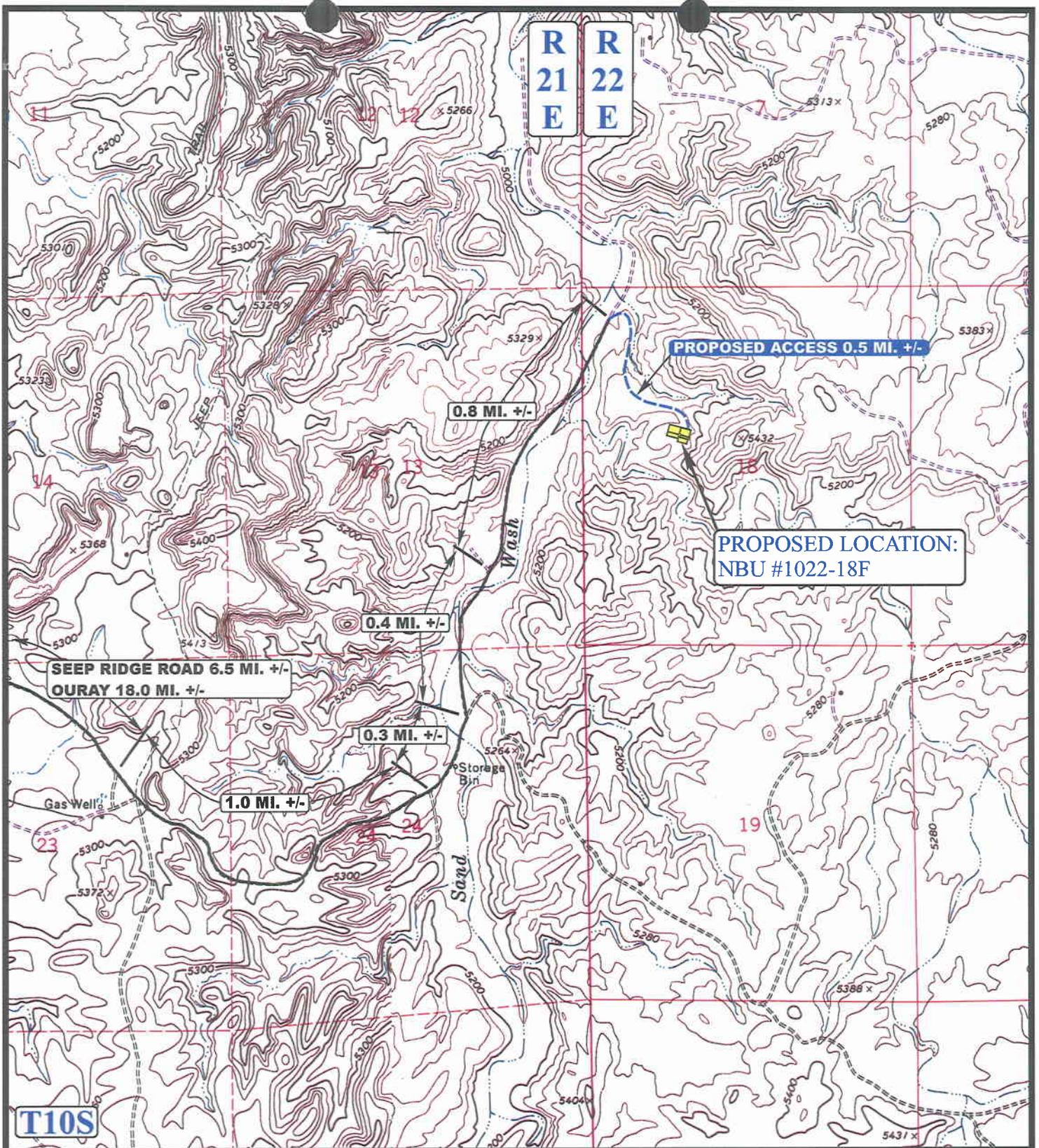
NBU #1022-18F  
 SECTION 18, T10S, R22E, S.L.B.&M.  
 2175' FNL 1425' FWL



**U&L S** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

<b>TOPOGRAPHIC</b>	<b>3</b>	<b>22</b>	<b>01</b>
<b>MAP</b>	MONTH	DAY	YEAR
SCALE: 1:100,000	DRAWN BY: P.M.		REV: 12-05-05 C.H.





**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



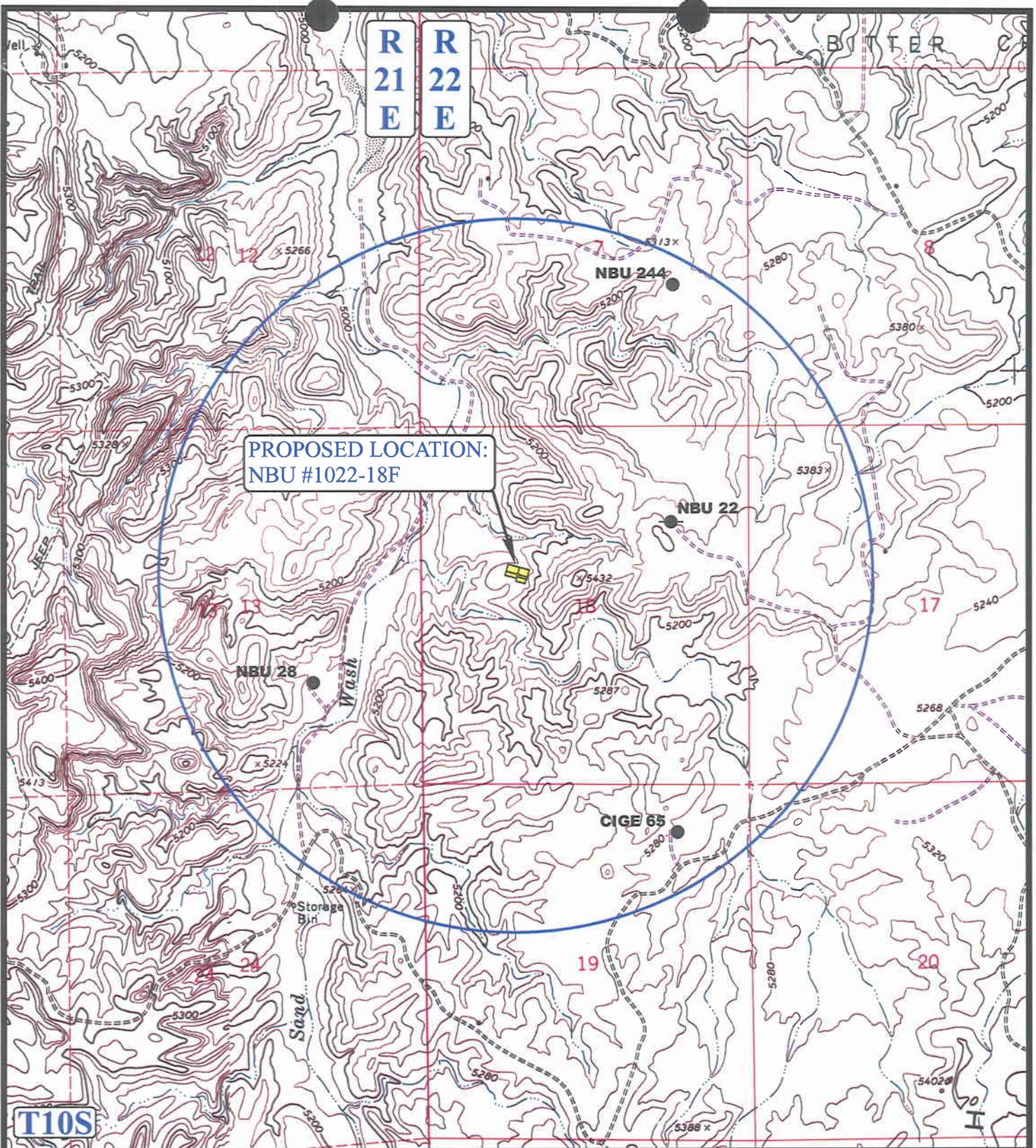
**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #1022-18F**  
**SECTION 18, T10S, R22E, S.L.B.&M.**  
**2175' FNL 1425' FWL**

**UEIS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **3 22 01**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: P.M. REV: 12-05-05 C.H.

**B**  
 TOPO



**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #1022-18F**  
**SECTION 18, T10S, R22E, S.L.B.&M.**  
**2175' FNL 1425' FWL**

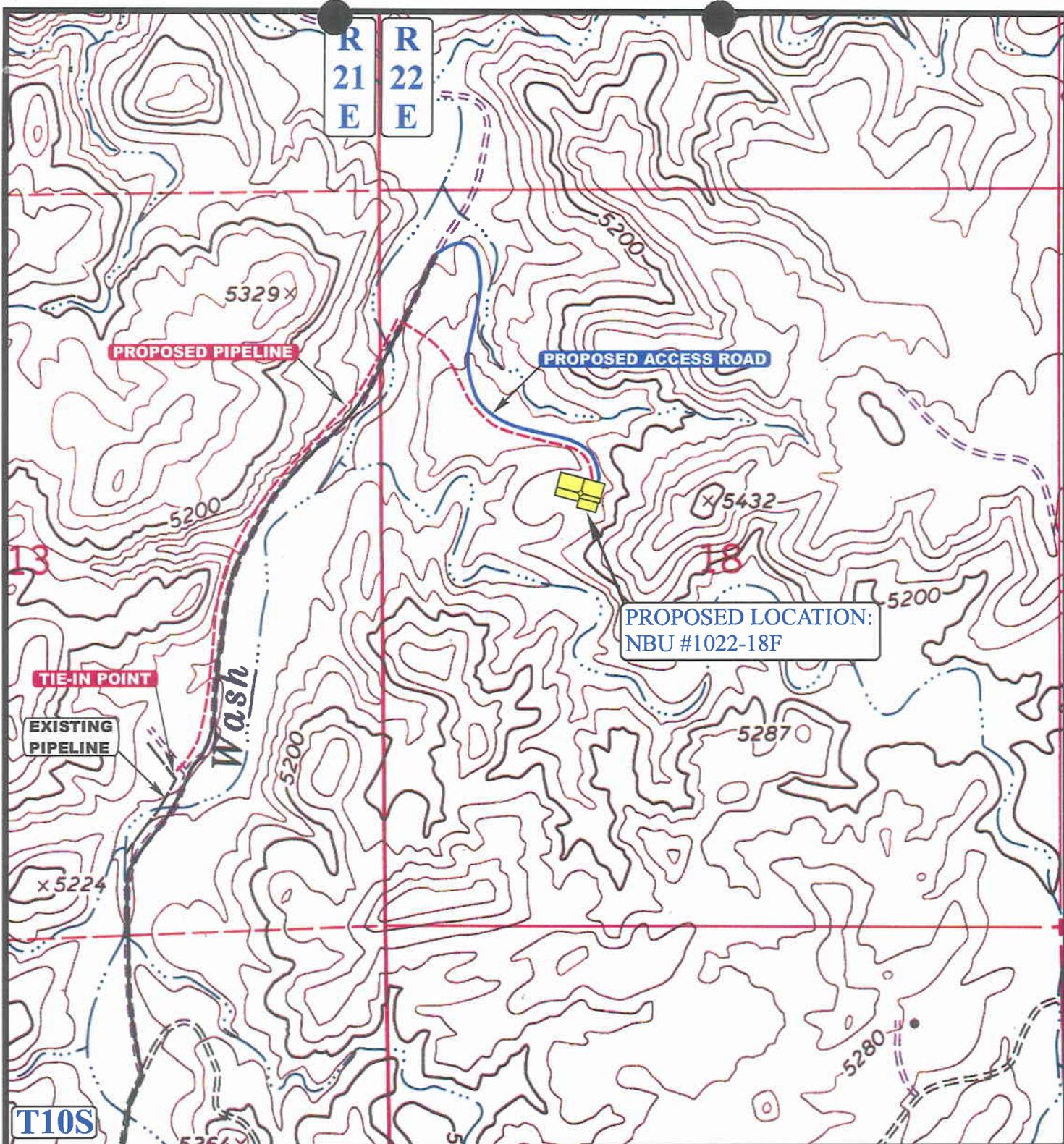


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **3 22 01**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REV: 12-05-05 C.H.





**APPROXIMATE TOTAL PIPELINE DISTANCE = 5600' +/-**

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS



**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #1022-18F**  
**SECTION 18, T10S, R22E, S.L.B.&M.**  
**2175' FNL 1425' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **3 22 01**  
**MAP** MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: P.M. REV: 12-05-05 C.H.



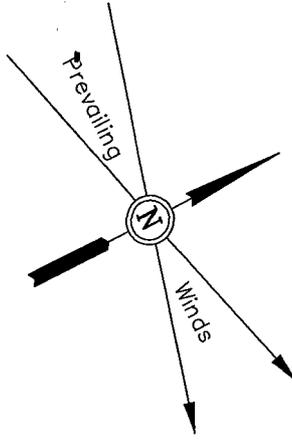
WESTPORT OIL AND GAS COMPANY, L.P.

FIGURE #1

LOCATION LAYOUT FOR

NBU #1022-18F  
SECTION 18, T10S, R22E, S.L.B.&M.  
2175' FNL 1425' FWL

Approx.  
Toe of  
Fill Slope



C-5.1'  
El. 52.1'

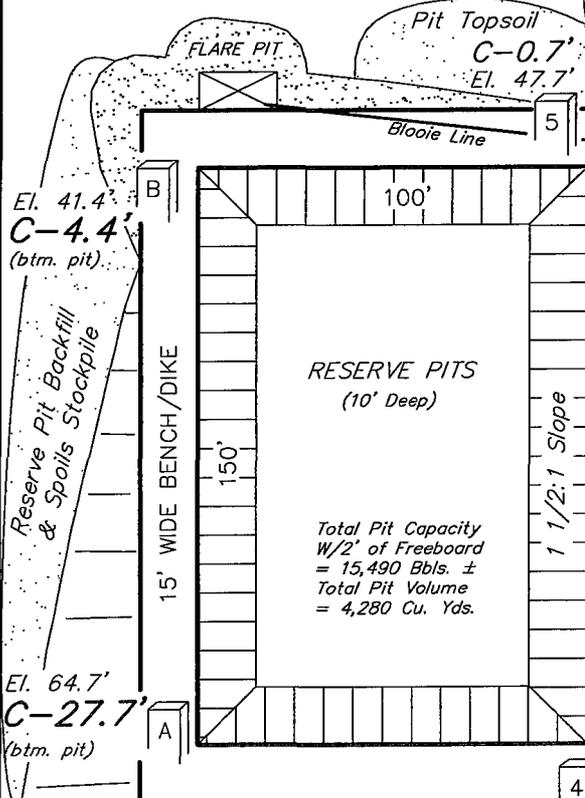
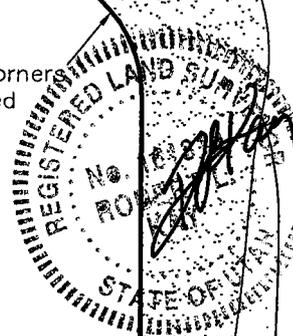
F-1.8'  
El. 45.2'

F-20.9'  
El. 26.1'

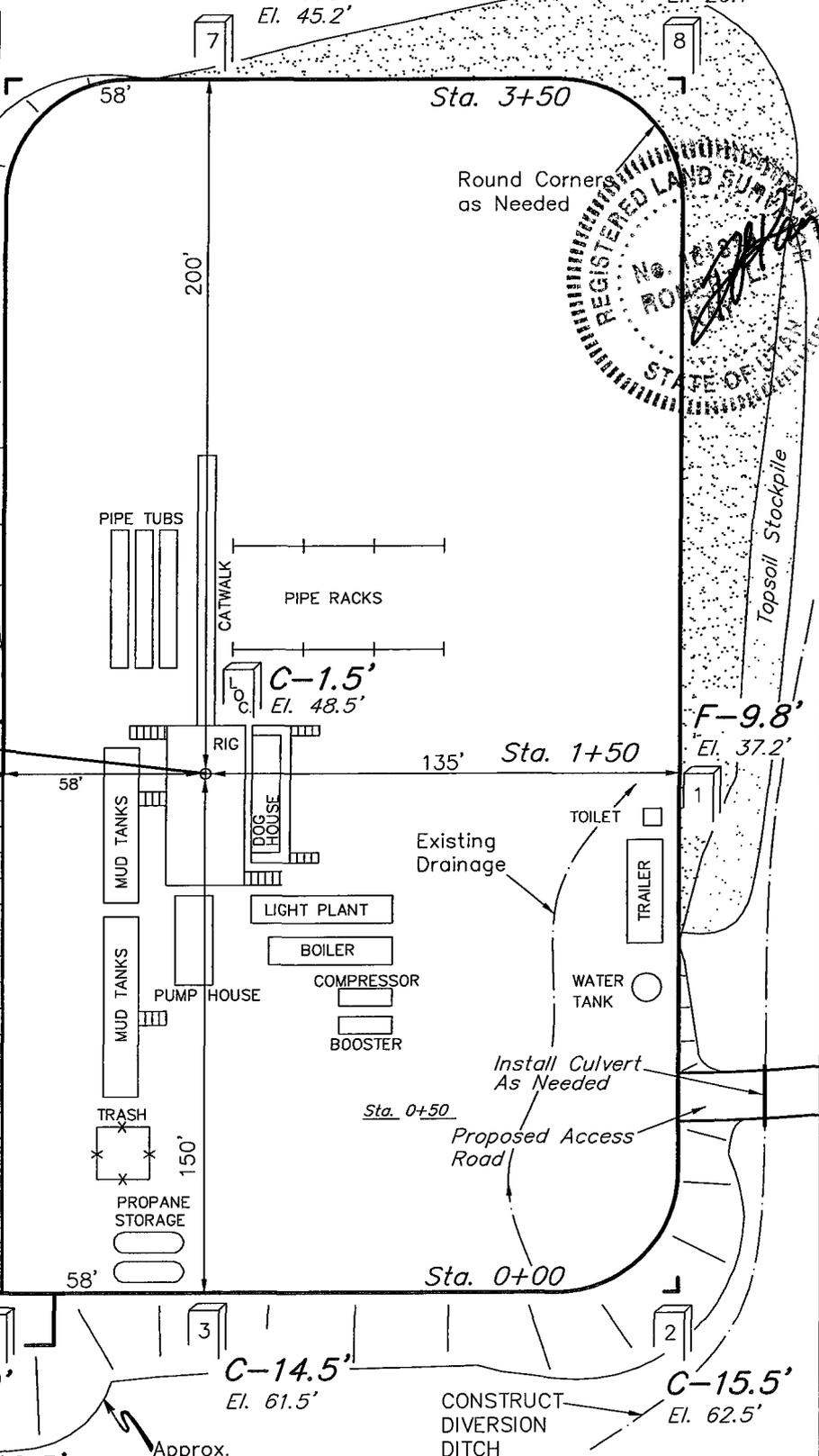
SCALE: 1" = 50'  
DATE: 3-23-01  
Drawn By: C.G.  
Rev: 12-13-04 E.C.O.  
Rev: 12-05-05 C.H.

NOTE:  
Flare Pit is to be located  
a min. of 100' from the  
Well Head.

Round Corners  
as Needed



NOTES:  
Elev. Ungraded Ground At Loc. Stake = 5148.5'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5147.0'



Approx.  
Top of  
Cut Slope

WESTPORT OIL AND GAS COMPANY, L.P.

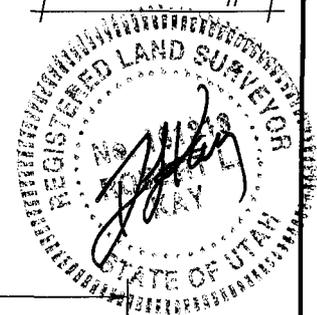
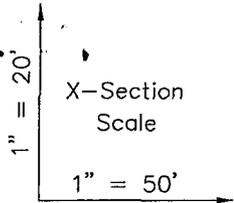
FIGURE #2

TYPICAL CROSS SECTIONS FOR

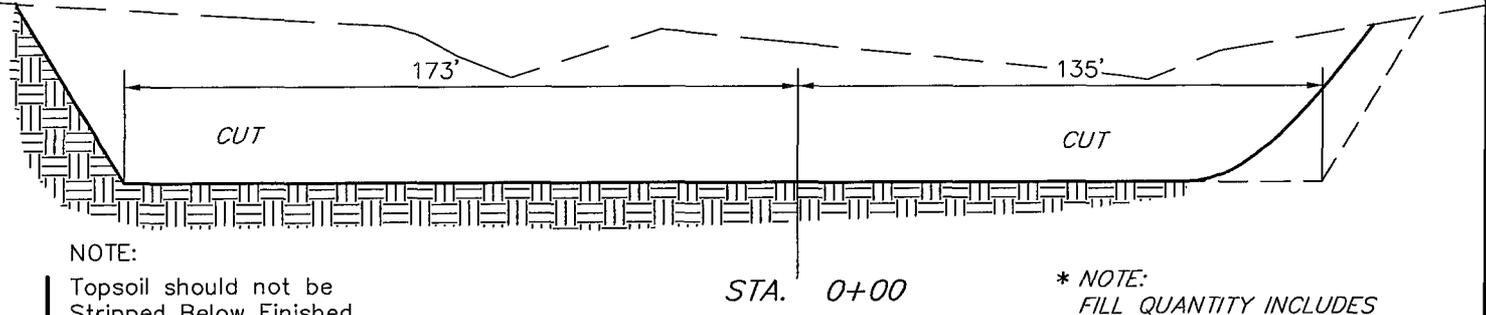
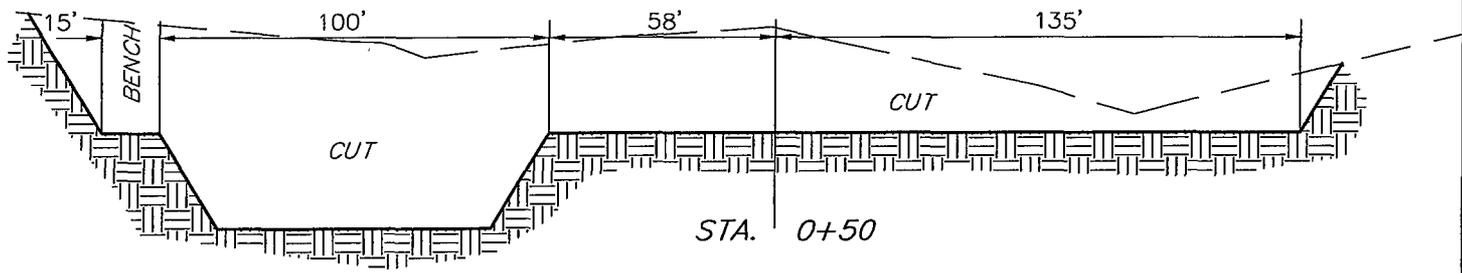
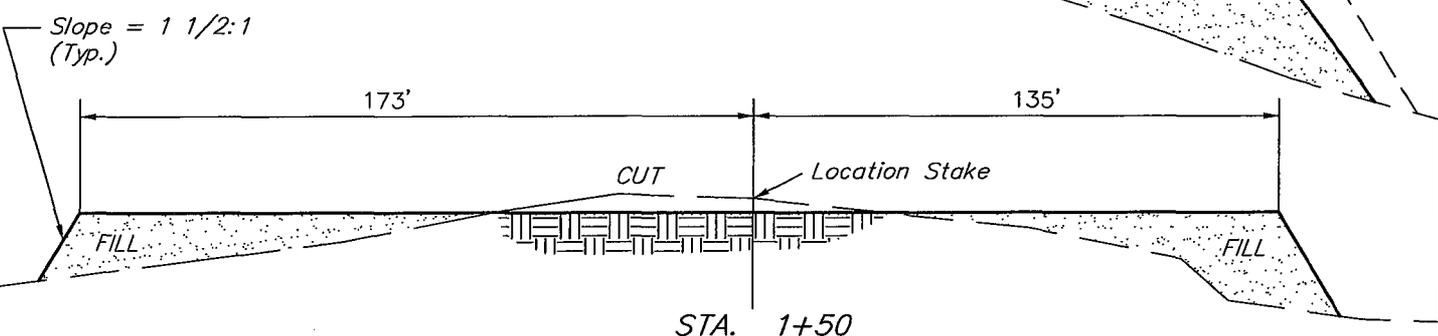
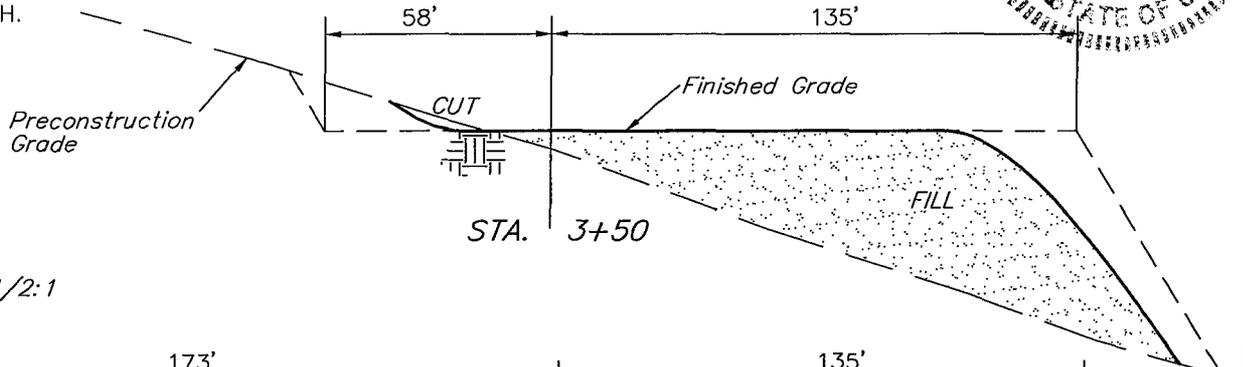
NBU #1022-18F

SECTION 18, T10S, R22E, S.L.B.&M.

2175' FNL 1425' FWL



DATE: 3-23-01  
Drawn By: C.G.  
Rev: 12-13-04 E.C.O.  
Rev: 12-05-05 C.H.



NOTE:  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,190 Cu. Yds.
Remaining Location	= 18,420 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 20,610 CU.YDS.</b>
<b>FILL</b>	<b>= 11,560 CU.YDS.</b>

EXCESS MATERIAL	= 9,050 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,330 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 4,720 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/20/2005

API NO. ASSIGNED: 43-047-37549

WELL NAME: NBU 1022-18F  
 OPERATOR: Kerr-McGee ( N2945 )  
 CONTACT: DEBRA DOMENICI

PHONE NUMBER: 435-781-7060

PROPOSED LOCATION:

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	3/14/06
Geology		
Surface		

SENW 18 100S 220E  
 SURFACE: 2175 FNL 1425 FWL  
 BOTTOM: 2175 FNL 1425 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.95017 LONGITUDE: -109.4844  
 UTM SURF EASTINGS: 629468 NORTHINGS: 4423116  
 FIELD NAME: NATURAL BUTTES ( 630 )

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-22973  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. RLB0005236 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-8496 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 173-14  
Eff Date: 12-2-99  
Siting: 460' fr u bdrly? uncomm. tract
- R649-3-11. Directional Drill

COMMENTS:

Needs Pres to (Recd 2-23-06)

STIPULATIONS:

- 1- Oil Shale
- 2- Statement of Basis
- 3- Surface Csg Cont Strip



**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**OPERATOR:** Westport Oil & Gas Company, L.P.  
**WELL NAME & NUMBER:** NBU 1022-18F  
**API NUMBER:** 43-047-37549  
**LOCATION:** 1/4,1/4 SE/NW Sec: 18 TWP: 10S RNG: 22E; 2175' FNL 1425' FWL

**Geology/Ground Water:**

Westport proposes to set 2,100' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 5,100'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 18. This well is over a mile from the proposed site. The well is owned by the BLM and is used for stock watering. Depth for the well is listed as 1,850 feet.. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The production casing cement should be brought above the base of the moderately saline groundwater to isolate it from fresher waters uphole.

**Reviewer:** Brad Hill **Date:** 03/02/06

**Surface:**

The pre-drill investigation of the surface was performed on February 23, 2006. Ed Bonner and Jim Davis of SITLA and Ben Williams of UDWR were invited to attend the presite on Feb.14, 2006. Mr. Davis and Mr. Williams attended.

The site is State Surface and State Mineral. The proposed location poses no obvious problems for drilling and appears to be the best location for drilling a well in the immediate area.

Mr. Williams of the UDWR stated that the area is classified as critical yearlong antelope range, however he did not recommend any stipulations, as water is the limiting factor affecting the population not forage. No other wildlife are expected to be affected. He gave Mr. Davis and Mr. Estes copies of his write-up and a DWR recommended seed mix to use on the reserve pit and when closing the location.

This predrill investigation was conducted on a cool sunny day.

**Reviewer:** Floyd Bartlett **Date:** 02/28/2006

**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 16 mils with a felt sub-liner shall be properly installed and maintained in the reserve pit.

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

**OPERATOR:** Westport Oil & Gas Company, L.P.

**WELL NAME & NUMBER:** NBU 1022-18F

**Note:** This location was previously permitted as NBU-385. API 43-047-34228.  
The location was not constructed.

**API NUMBER:** 43-047-37549

**LEASE:** ML-22973 **FIELD/UNIT:** Natural Buttes

**LOCATION:** 1/4,1/4 SE/NW Sec: 18 TWP: 10S RNG: 22E ; 2175' FNL 1425' FWL

**LEGAL WELL SITING:** 460' from unit boundary and uncommitted tracts.

**GPS COORD (UTM):** 4423116 Y 0629468 X **SURFACE OWNER:** State of Utah  
(SITLA)

**PARTICIPANTS**

Floyd Bartlett and David Hackford (DOGM), Carol Estes, Debora Domenici, Clay Einerson (Westport), David Kay and Luke Kay (Uintah Engineering & Land Survey), Jim Davis (SITLA), Ben Williams (Utah Division of Wildlife Resources).

**REGIONAL/SETTING TOPOGRAPHY**

General area is the Sand Wash Drainage of Uintah, County. Sand Wash is approximately 36 air miles south of Vernal, Utah and approximately 21 miles southeast of Ouray, Utah. Access is by State of Utah Highway, Uintah County and oilfield development roads.

Topography is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. White River is to the northeast about 4 miles. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

This site is on a lateral ridge, which runs to the west from the base of the high ridge top to the east, which defines the Sand Wash Drainage. A sidehill within the location has exposed sandstone bedrock. The bottom of Sand Wash is about 2/5 mile to the west. Approximately 0.5 miles of new road will be constructed from the existing road in Sand Wash around a sidehill to reach the location. Several small drainages will be intercepted by construction but no stability problems are anticipated.

**SURFACE USE PLAN**

**CURRENT SURFACE USE:** Sheep grazing, limited hunting and recreation.

**PROPOSED SURFACE DISTURBANCE:** Location of 350'x 193' and a reserve pit of 70' x 150'x 10 feet deep and an additional 10' wide bench. Approximately 0.5 miles of new road will be required. All material for the location and road will be obtained onsite.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: See attached map from GIS data base.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production facilities will be on location and added after drilling well. A pipeline 5,600 feet in length will follow the access road and go overland to a tie-in point in the bottom of Sand Wash.

SOURCE OF CONSTRUCTION MATERIAL: All construction material will be obtained from the site.

ANCILLARY FACILITIES: None will be required.

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST CONCERNS? (EXPLAIN). Unlikely, as the general use in the area is oil-field related with numerous other wells in the surrounding area.

#### **WASTE MANAGEMENT PLAN:**

Drilled cuttings will be settled into reserve pit. Liquids from pit will be allowed to evaporate. Formation water will be confined to storage tanks. Commercial contractor will handle sewage facilities, storage and disposal. Trash will be contained in trash baskets and hauled to an approved land fill.

#### **ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: None; the location is above the floodplain.

FLORA/FAUNA: A poor cover of desert type vegetation consisting primarily of a few dead black sagebrush and cheat grass. Antelope, rabbits, small reptiles, birds and mammals. Sheep graze the area in the winter.

SOIL TYPE AND CHARACTERISTICS: Deep sandy loam with small surface rock pavement.

EROSION/SEDIMENTATION/STABILITY: Little natural erosion. Sedimentation and stability are not a problem and location construction shouldn't cause an increase in stability or erosion problems. A small drainage will be intercepted and diverted around the pad on the north west side.

PALEONTOLOGICAL POTENTIAL: Completed for the previous well approved on this location but not constructed.

#### **RESERVE PIT**

CHARACTERISTICS: 70' by 150' and 10' deep. The reserve pit is all within cut on the south east side of the location. A 10' wide bench is planned around the outer edges and 2' of freeboard.

LINER REQUIREMENTS (Site Ranking Form attached): Level 1 sensitivity. A 16 mil liner with a felt pad will be required for the reserve pit.

**SURFACE RESTORATION/RECLAMATION PLAN**

As per SITLA requirements.

**SURFACE AGREEMENT:**

As per SITLA requirements.

**CULTURAL RESOURCES/ARCHAEOLOGY:** Site was surveyed previously. A report will be furnished to SITLA.

**OTHER OBSERVATIONS/COMMENTS**

Ben Williams of the UDWR stated that the area is classified as critical yearlong antelope range, however he did not recommend any stipulations, as water is the limiting factor affecting the population not forage. No other wildlife is expected to be affected.

The location Layout sheet will be redrawn to show the smaller size reserve pit and submitted.

This predrill investigation was conducted on a cool sunny day.

**ATTACHMENTS**

Photos of this site were taken and placed on file.

FLOYD BARTLETT  
DOGM REPRESENTATIVE

02/23/06; 2:15 PM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>10</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>
<b>Final Score</b>	<u>25</u>	<u>(Level I Sensitivity)</u>

Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level I = 15-19; lining is discretionary.

Sensitivity Level II = below 15; no specific lining is required.





Casing Schematic

Uinta

Surface

9-5/8"  
MW 8.4  
Frac 19.3

TOC @  
0.

TOC @  
0.

1430 Green River

1487  
TOC Tail

✓ w/ 6% washout  
\* Surface stop

Surface  
2000. MD

BHP

$(.052)(11.5)(8800) = 5262$

Anticipate 5456

Gas

$(.12)(8800) = 1056$

MASP = 4206

BOPE - 5,000 ✓

Seal Csg - 2270

708 = 1589

Max pressure @ Seal Csg shoe = 3960

✓ Test to 1500# as proposed  
(+ 700 psi = surf press)

✓ Adequate OAD

3/14/06

4-1/2"  
MW 11.5

Production  
8800. MD

3967 TOC Tail

4550 Wasatch

5100 Bmsw

✓ w/ 18% washout

6700 Mesa Verde

Well name:	<b>03-06 Westport NBU 1022-18F</b>		
Operator:	<b>Westport Oil &amp; Gas</b>	Project ID:	43-047-37549
String type:	Surface		
Location:	Uintah County		

**Design parameters:**  
**Collapse**  
Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**  
**Collapse:**  
Design factor 1.125

**Environment:**  
H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 103 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

**Burst**  
Max anticipated surface pressure: 1,760 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,000 psi  
  
No backup mud specified.

**Burst:**  
Design factor 1.00

Cement top: Surface

**Tension:**  
8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)  
  
Tension is based on buoyed weight.  
Neutral point: 1,753 ft

Non-directional string.  
  
**Re subsequent strings:**  
Next setting depth: 8,800 ft  
Next mud weight: 11.500 ppg  
Next setting BHP: 5,257 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,000 ft  
Injection pressure 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	9.625	32.30	H-40	ST&C	2000	2000	8.876	126.8

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	873	1370	1.570	2000	2270	1.14	57	254	4.49 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: March 3, 2006  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>03-06 Westport NBU 1022-18F</b>		
Operator:	<b>Westport Oil &amp; Gas</b>	Project ID:	43-047-37549
String type:	Production		
Location:	Uintah County		

**Design parameters:**

**Collapse**

Mud weight: 11.500 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 4,201 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP: 5,257 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 7,287 ft

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 198 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: Surface

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8800	4.5	11.60	M-80	LT&C	8800	8800	3.875	204
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5257	6350	1.208	5257	7780	1.48	85	267	3.16 B

Prepared by: Clinton Dworshak  
 Utah Div. of Oil & Mining

Phone: 801-538-5280  
 FAX: 801-359-3940

Date: March 3, 2006  
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8800 ft, a mud weight of 11.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML-22973

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

NATURAL BUTTES UNIT

8. WELL NAME and NUMBER:

NBU 1022-18F

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

NATURAL BUTTES

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
WESTPORT OIL & GAS COMPANY L.P.

3. ADDRESS OF OPERATOR:  
1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 2175'FNL, 1425'FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 18 10S 22E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>REVISED LOCATION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>LAYOUT, CUTSHEE</u>

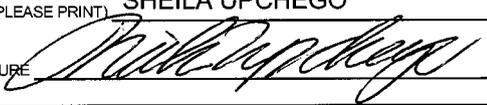
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR PROPOSES TO CHANGE THE PROPOSED LOCATION LAYOUT AND CUT SHEET FOR THE SUBJECT WELL LOCATION.

PLEASE REFER TO THE ATTACHED REVISED LOCATION LAYOUT AND CUT SHEET.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE 

DATE 4/5/2006

(This space for State use only)

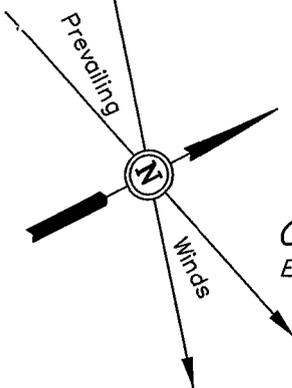
**RECEIVED**

**APR 12 2006**

**DIV. OF OIL, GAS & MINING**

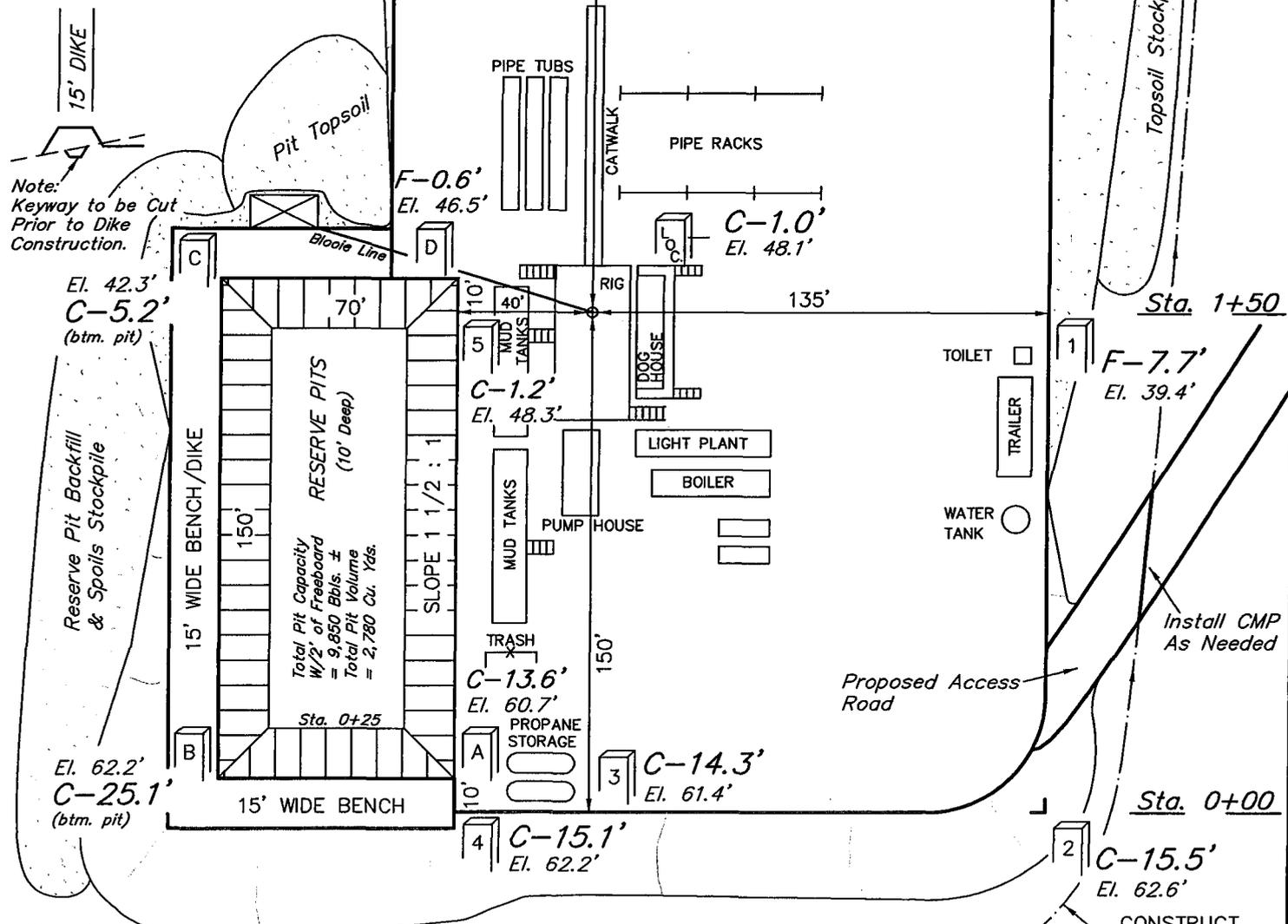
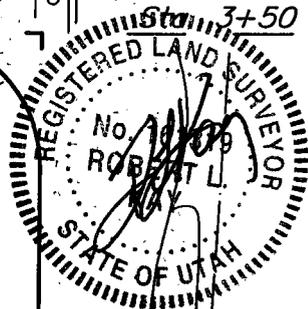
LOCATION LAYOUT FOR  
 NBU #1022-18F  
 SECTION 18, T10S, R22E, S.L.B.&M.  
 2175' FNL 1425' FWL

Approx.  
 Toe of  
 Fill Slope



SCALE: 1" = 50'  
 DATE: 03-21-06  
 Drawn By: L.K.

NOTE:  
 Flare Pit is to be located  
 a min. of 100' from the  
 Well Head.



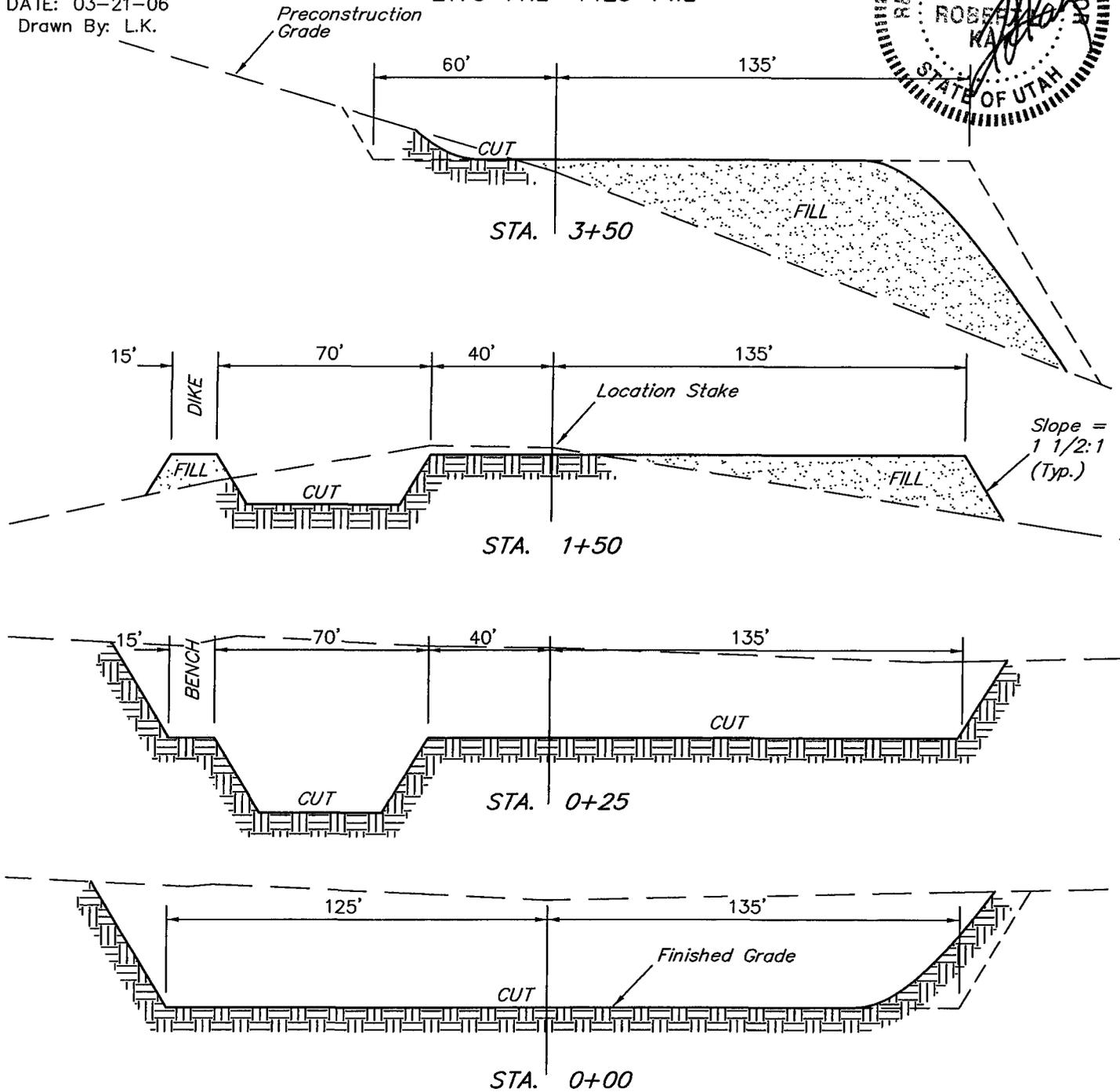
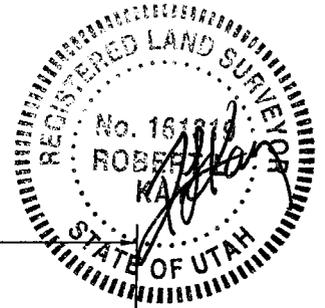
NOTES:

Elev. Ungraded Ground At Loc. Stake = 5148.1'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5147.1'

TYPICAL CROSS SECTIONS FOR  
 NBU #1022-18F  
 SECTION 18, T10S, R22E, S.L.B.&M.  
 2175' FNL 1425' FWL

1" = 20'  
 X-Section  
 Scale  
 1" = 50'

DATE: 03-21-06  
 Drawn By: L.K.



APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,940 Cu. Yds.
Remaining Location	= 14,880 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 16,820 CU.YDS.</b>
<b>FILL</b>	<b>= 10,830 CU.YDS.</b>

EXCESS MATERIAL	= 5,990 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,330 Cu. Yds.
EXCESS UNBALANCE (After interim Rehabilitation)	= 2,660 Cu. Yds.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
1. DJJ
2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **1/6/2006**

<b>FROM:</b> (Old Operator): N2115-Westport Oil & Gas Co., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024	<b>TO:</b> ( New Operator): N2995-Kerr-McGee Oil & Gas Onshore, LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024
---	--

WELL NAME	CA No.	Unit:	NATURAL BUTTES UNIT					
	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- If **NO**, the operator was contacted on:
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred
- Reports current for Production/Disposition & Sundries on: ok

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet

7. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006

8. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 5/15/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/15/2006
- Bond information entered in RBDMS on: 5/15/2006
- Fee/State wells attached to bond in RBDMS on: 5/16/2006
- Injection Projects to new operator in RBDMS on: \_\_\_\_\_
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: CO1203
- Indian well(s) covered by Bond Number: RLB0005239
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236
- The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG  
The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

\_\_\_\_\_  
 \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address  
**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)  
**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEE ATTACHED**

5. Lease Serial No.  
**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006. KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

**RECEIVED**

**MAY 10 2006**

DIV. OF OIL, GAS & MINING

*BLM BOND = C 01203  
BIA BOND = RLB 0005239*

**APPROVED 5116106**

*Earlene Russell*  
**Division of Oil, Gas and Mining**  
**Earlene Russell, Engineering Technician**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) <b>RANDY BAYNE</b>	Title <b>DRILLING MANAGER</b>
Signature <i>Randy Bayne</i>	Date <b>May 9, 2006</b>

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by	Title	Date
-------------	-------	------

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office
--------

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.

**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

**WESTPORT OIL & GAS COMPANY L.P.**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEE ATTACHED**

8. Well Name and No.

**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

**APPROVED** 5/16/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED  
MAY 10 2006

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**BRAD LANEY**

Signature

Title

**ENGINEERING SPECIALIST**

Date

**May 9, 2006**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

*Brad Laney*

Title

Date

**5-9-06**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 7/11/2006 10:04:31 AM  
**Subject:** Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

Enduring Resources, LLC  
Buck Camp 12-22-12-2  
Rock House 10-23-24-32  
Rock House 10-23-11-32

Dominion E&P, Inc  
LCU 3-2H  
LCU 6-2H  
LCU 8-2H  
LCU 7-2H  
LCU 9-2H

The Houston Exploration Company  
East Coyote 3-2-8-25  
East Coyote 4-2-8-25  
East Coyote 6-2-8-25  
East Coyote 8-2-8-25  
East Coyote 10-2-8-25  
East Coyote 12-2-8-25  
East Coyote 14-2-8-25  
East Coyote 16-2-8-25

Kerr McGee Oil & Gas Onshore LP (Westport)  
State 1021-36M  
State 1021-36L  
NBU 1022-18F  
Bitter Creek 1122-2B  
Bitter Creek 1122-2H  
NBU 1021-2C

If you have any questions regarding this matter please give me a call.

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

July 11, 2006

Kerr-McGee Oil & Gas Onshore LP  
1368 S 1200 E  
Vernal, UT 84078

Re: Natural Buttes Unit 1022-18F Well, 2175' FNL, 1425' FWL, SE NW, Sec. 18,  
T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37549.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA  
Bureau of Land Management, Vernal District Office

Operator: Kerr-McGee Oil & Gas Onshore LP  
Well Name & Number Natural Buttes Unit 1022-18F  
API Number: 43-047-37549  
Lease: ML-22973

Location: SE NW                      Sec. 18                      T. 10 South                      R. 22 East

### Conditions of Approval

1. **General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

Page 2

43-047-37549

July 11, 2006

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
  
7. Surface casing shall be cemented to the surface.

**DIVISION OF OIL, GAS AND MINING**

***SPUDDING INFORMATION***

Name of Company: KERR-McGEE OIL & GAS ONSHORE, LP

Well Name: NBU 1022-18F

Api No: 43-047-37549 Lease Type: STATE

Section 18 Township 10S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

**SPUDDED:**

Date 12/30/06

Time 10:00 AM

How DRY

***Drilling will Commence:*** \_\_\_\_\_

Reported by LOU WELDON

Telephone # (435) 828-7035

Date 01/04/2007 Signed CHD

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304736860	HATCH 923-13G		SWNE	13	9S.	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>A</u>	99999	<u>15874</u>	12/29/2006			<u>1/11/07</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 12/29/2006 AT 1030 HRS							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304735896	NBU 1022-30G		SWNE	30	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	1/1/2007			<u>1/11/07</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>MVRD = WSTMVD</u> SPUD WELL LOCATION ON 01/01/2007 AT 1000 HRS.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304737549	NBU 1022-18F		SENE	18	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	12/30/2006			<u>1/11/07</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>MVRD = WSTMVD</u> SPUD WELL LOCATION ON 12/30/2006 AT 1000 HRS.							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

1/4/2007

Title

RECEIVED

JAN 04 2007

DIV. OF OIL, GAS & MINING

(5/2000)

To: EARLENE Russell From: Sheila Upchego  
Co./Dept: UTDOG/M Co: KMG  
Phone #: (801) 538-5330 Phone #: (435) 781-7024  
Fax #: (801) 392-3940 Fax #: (435) 781-7094

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-22973</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		8. WELL NAME and NUMBER: <b>NBU 1022-18F</b>
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>	PHONE NUMBER: <b>(435) 781-7024</b>	9. API NUMBER: <b>4304737549</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2175'FNL, 1425'FWL</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 18 10S 22E</b>		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> PRODUCTION (START/RESUME)  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> TEMPORARILY ABANDON  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> WATER SHUT-OFF  <input checked="" type="checkbox"/> OTHER: <u>WELL SPUD</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 12/30/2006 AT 1000 HRS

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>1/4/2007</u>

(This space for State use only)

**RECEIVED**  
**JAN 11 2007**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML-22973**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:  
**UNIT #891008900A**

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
**NBU 1022-18F**

2. NAME OF OPERATOR:  
**KERR MCGEE OIL & GAS ONSHORE LP**

9. API NUMBER:  
**4304737549**

3. ADDRESS OF OPERATOR:  
**1368 SOUTH 1200 EAST** CITY **VERNAL** STATE **UT** ZIP **84078**

PHONE NUMBER:  
**(435) 781-7024**

10. FIELD AND POOL, OR WILDCAT:  
**NATURAL BUTTES**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **2175'FNL, 1425'FWL**

COUNTY: **UINTAH**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 18 10S 22E**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>SET SURFACE CSG.</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

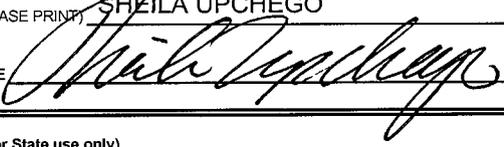
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU BILL MARTIN AIR RIG ON 01/06/2006. DRILLED 12 1/4" SURFACE HOLE TO 2150'. RAN 9 5/8" 32.3# H-40 SURFACE CSG. WERE UNABLE TO GET LAST JT IN HOLE RAN 200' OF 1" PIPE. LEAD CMT W/180 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. LOST RETURNS AFTER PLUG WAS DROPPED. TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE. 2ND TOP OUT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE NOT CMT TO SURFACE. 3RD TOP OUT W/225 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE. CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) **SHEILA UPCHEGO**

TITLE **SENIOR LAND ADMIN SPECIALIST**

SIGNATURE 

DATE **1/9/2007**

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**RECEIVED**  
**JAN 11 2007**  
**DIV. OF OIL, GAS & MINING**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-22973

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
UNIT #891008900A

8. WELL NAME and NUMBER:  
NBU 1022-18F

9. API NUMBER:  
4304737549

10. FIELD AND POOL, OR WILDCAT:  
NATURAL BUTTES

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:  
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 2175'FNL, 1425'FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 18 10S 22E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
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	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS.
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2150' TO 8912' ON 02/05/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/390 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1150 SX 50/50 POZ @14.3 PPG 1.31 YIELD. NIPPLE DOWN BOPE SET SLIPS W/85K. CLEAN MUD PITS.

RELEASED PIONEER RIG 38 ON 02/06/2007 AT 2000 HRS.

KAS  
POB  
PIC

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 2/7/2007

(This space for State use only)

RECEIVED

FEB 14 2007

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-22973</b>
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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		8. WELL NAME and NUMBER: <b>NBU 1022-18F</b>
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>	PHONE NUMBER: <b>(435) 781-7024</b>	9. API NUMBER: <b>4304737549</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2175'FNL, 1425'FWL</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 18 10S 22E</b>		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <b>FINAL DRILLING OPERATIONS.</b>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2150' TO 8912' ON 02/05/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/390 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1150 SX 50/50 POZ @14.3 PPG 1.31 YIELD. NIPPLE DOWN BOPE SET SLIPS W/85K. CLEAN MUD PITS.

RELEASED PIONEER RIG 38 ON 02/06/2007 AT 2000 HRS.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>2/7/2007</u>

(This space for State use only)

**RECEIVED**  
**FEB 14 2007**  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22973
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		8. WELL NAME and NUMBER: NBU 1022-18F
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		9. API NUMBER: 4304737549
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2175'FNL, 1425'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 18 10S 22E		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>WELL SPUD</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 12/30/2006 AT 1000 HRS

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>1/4/2007</u>

(This space for State use only)

**RECEIVED**  
**JAN 11 2007**  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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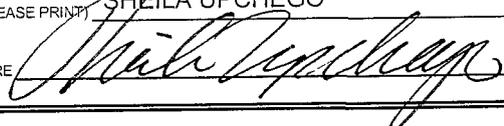
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2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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		9. API NUMBER: 4304737549
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
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	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SET SURFACE CSG.
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU BILL MARTIN AIR RIG ON 01/06/2006. DRILLED 12 1/4" SURFACE HOLE TO 2150'. RAN 9 5/8" 32.3# H-40 SURFACE CSG. WERE UNABLE TO GET LAST JT IN HOLE RAN 200' OF 1" PIPE. LEAD CMT W/180 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. LOST RETURNS AFTER PLUG WAS DROPPED. TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE. 2ND TOP OUT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE NOT CMT TO SURFACE. 3RD TOP OUT W/225 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE. CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 1/9/2007

(This space for State use only)

RECEIVED  
JAN 11 2007  
DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

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2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		9. API NUMBER: <b>4304737549</b>	
3. ADDRESS OF OPERATOR: <b>1368 SOUTH 1200 EAST</b> CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		PHONE NUMBER: <b>(435) 781-7024</b>	10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2175'FNL, 1425'FWL</b>			COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 18 10S 22E</b>			STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO PERFORATE AND FRACTURE THE WASATCH FORMATION. THE OPERATOR WILL COMMINGLE THE NEWLY WASATCH FORMATION AND THE EXISTING MESAVERDE FORMATIONS.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

Add new perms 5648' to 6642'

**COPY SENT TO OPERATOR**

Date: 8.27.2008

Initials: KS

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE	DATE <u>8/13/2008</u>

(This space for State use only)

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

DATE: 8/26/08  
BY: [Signature]  
(See Instructions on Reverse Side)  
\*Case 173-14

**RECEIVED**

**AUG 19 2008**

**DIV. OF OIL, GAS & MINING**

**Name:** NBU 1022-18F  
**Location:** SENW Sec 18 T10S R22E  
**Uintah County, UT**  
**Date:** **07/30/2008**

**ELEVATIONS:** 5148 GL 5164 KB

**TOTAL DEPTH:** 8918 **PBTD:** 8852  
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 2083'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 8896'  
 Marker Joint **4296'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1097' Green River  
 1832' Mahogany  
 4291' Wasatch  
 6938' Mesaverde  
 Estimated T.O.C. from CBL @

**GENERAL:**

- A minimum of 7 tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 02/05/2007
- 3 fracturing stages required for coverage.
- Procedure calls for 4 CBP's (8000 psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and 1/2 the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). **DO NOT OVERDISPLACE.** Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump **resin coated sand** last 5,000# of all frac stages
- Tubing Currently Landed @~7908
- Originally completed on 02/21/2007

**Existing Perforations:**

6884-6887'	4 spf
6916-6918'	4 spf
7009-7011'	3 spf
7094-7099'	4 spf
7298-7302'	4 spf
7337-7339'	4 spf
7466-7468'	3 spf
7514-7517'	4 spf
7583-7584'	4 spf
7679-7682'	4 spf
7751-7753'	4 spf
7810-7812'	4 spf
7856-7860'	4 spf
8288-8292'	4 spf
8366-8370'	4 spf
8385-8388'	4 spf
8526-8531'	4 spf
8579-8582'	4 spf
8775-8778'	4 spf

**PROCEDURE:**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~7908'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 6742 (50' below proposed CBP). Otherwise P/U a mill and C/O to 6742 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6692'. Pressure test BOP and casing to 6000 psi. .
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6486	6492	4	24
WASATCH	6530	6533	3	9
WASATCH	6640	6642	3	6

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6436' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~6108'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
WASATCH	6068	6078	4	40
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6018' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~5794'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
WASATCH	5648	5652	4	16
WASATCH	5758	5764	4	24
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5598' flush only with recycled water.
11. Set 8000 psi CBP at ~5598'.
12. TIH with 3 7/8" bit, pump off sub, SN and tubing.
13. Drill plugs and clean out toPBTD. Pump off sub and land tubing at ±6038' unless indicated otherwise by the well's behavior. This well will be commingled at this time.
14. RDMO

**For design questions, please call  
Curtis Caile, Denver, CO  
(406)-490-2742 (Cell)  
(720)-929-6194 (Office)**

**For field implementation questions, please call  
Robert Miller, Vernal, UT  
4350781 7041 (Office)**

NOTES:



**NBU 1022-18F Recompletion  
Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	6486	6492	4	24	6485	to	6492
	WASATCH	6530	6533	3	9	6530	to	6535
	WASATCH	6640	6642	3	6	6602	to	6602
	WASATCH		No Perfs			6608	to	6610
	WASATCH		No Perfs			6640	to	6642
	# of Perfs/stage				39	CBP DEPTH	6,108	
2	WASATCH	6068	6078	4	40	6067	to	6079
	# of Perfs/stage				40	CBP DEPTH	5,794	
3	WASATCH	5648	5652	4	16	5648	to	5652
	WASATCH	5758	5764	4	24	5758	to	5761
	# of Perfs/stage				40	CBP DEPTH	5,598	
Totals					119			

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

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1. TYPE OF WELL      OIL WELL       GAS WELL       OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
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2. NAME OF OPERATOR:  
**KERR MCGEE OIL & GAS ONSHORE LP**

9. API NUMBER:  
**4304737549**

3. ADDRESS OF OPERATOR:  
**1368 SOUTH 1200 EAST      CITY VERNAL      STATE UT      ZIP 84078**

PHONE NUMBER:  
**(435) 781-7024**

10. FIELD AND POOL, OR WILDCAT:  
**NATURAL BUTTES**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **2175'FNL, 1425'FWL**  
  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 18 10S 22E**

COUNTY: **UINTAH**  
  
STATE: **UTAH**

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PLEASE REFER TO THE ATTACHED RECOMPLETION CHRONOLOGICAL WELL HISTORY.

**RECEIVED**  
**OCT 06 2008**

NAME (PLEASE PRINT) SHEILA UPCHEGO      TITLE REGULATORY ANALYST  
SIGNATURE *Sheila Upchego*      DATE 10/1/2008

(This space for State use only)

Wins No.: 92743

NBU 1022-18F

API No.: 4304737549

EVENT INFORMATION: EVENT ACTIVITY: RECOMPLETION START DATE: 9/22/2008 AFE NO.: 2023152  
 OBJECTIVE: DEVELOPMENT END DATE: 9/26/2008  
 OBJECTIVE 2: RECOMPLETE DATE WELL STARTED PROD.:  
 REASON: WAS SW Event End Status: COMPLETE

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

GWS 1 / 1 09/22/2008 09/26/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
9/22/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 - 7:30	0.50	COMP	48		P	HSM.
	7:30 - 15:00	7.50	COMP	31	I	P	MIRU RIG, SPOT EQUIP. FWP 90#. BLOW DOWN WELL T/ PROD TANK. ND WH, NU BOP. UNLAND TBG. LD 4 1/16 TBG HNGR. POOH W/ 2 3/8, J-55 TBG. SB 240 JTS, LD 13JTS. LD BHA. PUMPED 80 BBLs TOTAL T/ CONTROL WELL. ND BOP, NU FRAC VALVES. PREP T/ W.L. IN THE :AM. SWI. SDFN.  (ROLLED 8 FRAC TANKS @ 7:AM THIS MORNING. ALL 8 TANKS ARE ZERO H2S.)
9/23/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 - 7:30	0.50	COMP	48		P	HSM.
	7:30 - 15:00	7.50	COMP	34	I	P	SICP 100# OPEN WELL T/ PROD TANK, BLOW WELL DOWN. MIRU CUTTERS W.L.. PU 4 1/2 GR. RIH W/ GR T/ 6742'. DIDN'T HIT NOTHING. POOH, PU 4 1/2, 8K, BAKER CBP. RIH SET CBP @ 6680'. POOH, FILL 4 1/2 CSG W/ RIG PUMP, W/ 80 BBLs 2% KCL. MIRU B & C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 6200#, GOOD TEST. BLEED OFF PSI T/ FLOW BACK TANK. RDMO B & C QUICK TEST. PU 3 3/8 EXP GUN, 23 GM, .36 HOLE. 90 & 120 DEG PHASING. RIH PERF F/ 6640'-42', 3 SPF. 6 HOLES. 6530'-33', 3 SPF. 9 HOLES. 6486'-92', 4 SPF. 24 HOLES. POOH. SB CUTTERS LUBE. SWI, SDFN. PREP T/ FRAC IN THE : AM.
9/24/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 - 7:30	0.50	COMP	48		P	HSM. HIGH PSI LINES.
	7:30 - 15:00	7.50	COMP	36	B	P	MIRU WEATHERFORD FRAC SERV & CUTTERS W.L.. PSI TEST LINES T/ 7200#. GOOD TEST. OPEN WELL 875#. STG 1) BRK @ 2269#, @ 2.8 BPM. SD ISIP 1733#, FG .71. EST INJR 50.3 @ 4000# = 66% OPEN. PUMP 31,000# 30/50 OTTAWA, TAIL IN W/ 5,000#, 30/50 TLC. SD ISIP 2270#, FG .79. TURN WELL OVER T/ W.L. CREW.  STG 2) PU 4 1/2, 8K, BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE. 90 DEG PHASING. RIH SET 8k, CBP @ 6108' P/U PERF F/ 6068'-78', 4 SPF, 40 HOLES. POOH. TURN WELL OVER T/ FRAC CREW. OPEN WELL 0#. BRK @ 2870# @ 2.7 BPM. SD ISIP 1035#, FG .61. EST INJR @ 51.9 @ 3157# T/ CALCULATE PERF OPEN @ 96%. PUMP 23,179# 30/50 OTTAWA & TAIL IN W/ 5000#, 30/50 TLC. SD ISIP 2105#, FG .79. X-OVER FOR W.L..  STG 3) PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP, 23 GM, .36 HOLE. 90 DEG PHASING. RIH SET CBP @ 5786', P/U PREF @ 5758'-64', 4 SPF, 24 HOLES. 5648'-52', 4 SPF, 16 HOLES. POOH. X-OVER T/ FRAC CREW. OPEN WELL 175#. BRK @ 2924# @ 2.7 BPM. SD ISIP @ 1547#, FG .71. EST INJR @ 51.5 @ 3266# T/ CALCULATE PERF OPEN 100%. PUMP 14,912#, 30/50 OTTAWA & TAIL IN W/ 5000#, 30/50 TLC. SD ISIP 1850#, FG .77. X-OVER FOR W.L. PU 4 1/2, 8K BAKER CBP. RIH SET CBP @ 5800'. POOH. RD MO CUTTERS & WEATHERFORD FRAC SERV. BLEED OFF WELL. ND FRAC V. NU BOP. RU TBG EQUIP. PU 3 7/8 BIT+ X-DART+POBS+1.875 XN-NIPPLE. RIH W/ 2 3/8, J-55 TBG TAG K.P.. LD 1 JT, RU DRL EQUIP. PREP T/ DRL OUT IN THE : AM. EOT @ 5570'. SWI, SDFN.
9/25/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 - 7:30	0.50	COMP	48		P	HSM.

	7:30 - 18:30	11.00	COMP	44	C	P	<p>OPEN WELL 0#. BRK CONV CIRC.            CBP 1) TAG 0' FILL. DRL OUT CBP @ 5600' IN 10 MIN. 200# INCR. CONT RIH.</p> <p>CBP 2) TAG FILL @ 5771'=15' FILL. DRL OUT CBP @ 5786' IN 8 MIN. 200# INCR. CONT RIH.</p> <p>CBP 3) TAG FILL @ 6088'=20' FILL. DRL OUT CBP @ 6108' IN 10 MIN. 150# INCR. CONT RIH.</p> <p>CBP 4) TAG FILL @ 6650'=30' FILL. CIRC SAND T/ SURFACE , DRL OUT CBP @ 6680' IN 7 MIN. WELL WENT ON VACCUM. CONT RIH T/ 7888', PREP &amp; TALLY 35 WORK STRING JTS OF 2 3/8, J-55 TBG. CONT RIH, TAG SCALE @ 8565'. MIRU WEATHERFORD FU. BRK CONV CIRC W/ FOAM. DRL OUT 45' SCALE BRIDGE. FELL OUT @ 8610'. CONT RIH W/ TBG. TAG SCALE @ 8705'. DRL OUT PATCHES OF SCALE F/ 8705' T/8780'. TAG THE OLD POBS. COULD NOT MAKE ANY MORE HOLE. CIRC WELL CLEAN. RD DRL EQUIP. LD 7 JTS 2 3/8 J-55. RIG PUMP T/ TBG. KILL TBG W/ 20 BBLs. LD STRING FLOAT, CONT POOH LD EXCESS TBG. SB 80 JTS PROD STRING. EOT @ 1006'. SDFN. TURN WELL OVER T/ FBC FOR NITE. FCP 50#. ON OPEN CHOKE.</p>
9/26/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 - 7:30	0.50	COMP	48		P	HSM.
	7:30 - 12:00	4.50	COMP	50		P	<p>FCP 100# ON OPEN CHOKE OVER NITE. RIG PUMP T/ CSG. CONTROL WELL W/ 30 BBLs 2 % KCL. CONT POOH SB TBG. LD POBS PKG. PU 1.875 XN-NIPPLE, RIH W/ 2 3/8, J-55 TBG. PU 4 1/16 TBG HNGR, LAND 2 3/8, J-55 TBG W/</p> <p>KB 16.00            4 1/16 HNGR .83            193 JTS 2 3/8, J-55 TBG 6015.68            NOTCH COLLAR/XN NIPP 1.85</p> <p>EOT 6034.36</p> <p>RIG PUMP T/ CSG, PUMP 10 T/ CONTROL WELL. ND BOP, NU WH. RU WEATHERFORD FU T/ CSG, UNLOAD WELL T/ FLOW BACK TANK. SD W/ FOAM UNIT. FTP 100#, SICP 800#. TURN WELL OVER T/ FBC. RDMO WEATHERFORD FU. RACK OUT RIG EQUIP. RDMO RIG. ROAD RIG T/ NBU 1021-24I. END JOB.</p>
9/27/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 -			33		A	<p>7 AM FLBK REPORT: CP 700#, TP 125#, 48/64" CK, 40 BWPH, TRACE SAND, - GAS            PUMPER: -            TTL BBLs RECOVERED: 881            BBLs LEFT TO RECOVER: 1623</p>
9/28/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 -			33		A	<p>7 AM FLBK REPORT: CP 700#, TP 100#, 48/64" CK, 20 BWPH, TRACE SAND, - GAS            PUMPER: -            TTL BBLs RECOVERED: 1619            BBLs LEFT TO RECOVER: 885</p>
9/29/2008	<u>SUPERVISOR:</u> DAVID DANIELS						<u>MD:</u>
	7:00 -			33		A	<p>7 AM FLBK REPORT: CP 750#, TP 600#, 20/64" CK, 18 BWPH, TRACE SAND, - GAS            PUMPER: -            TTL BBLs RECOVERED: 1889            BBLs LEFT TO RECOVER: 615</p>
	8:30 -		PROD				<p>WELL TURNED TO SALES @ 1130 HR ON 9/29/2008 - FTP 500#, CP 820#, CK 18/64", 820 MCFD, 336 BWPD</p>

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER **RECOMPLETE**

2. NAME OF OPERATOR:  
**KERR MCGEE OIL & GAS ONSHORE LP**

3. ADDRESS OF OPERATOR: **1368 S 1200 E** CITY **VERNAL** STATE **UT** ZIP **84078** PHONE NUMBER: **(435) 781-7024**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **2175'FNL, 1425'FWL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
AT TOTAL DEPTH:

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML-22973**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME  
**UNIT #891008900A**

8. WELL NAME and NUMBER:  
**NBU 1022-18F**

9. API NUMBER:  
**4304737549**

10. FIELD AND POOL, OR WILDCAT  
**NATURAL BUTTES**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SENW 18 10S 22E**

12. COUNTY  
**UINTAH**

13. STATE  
**UTAH**

14. DATE SPUNDED: **12/30/2006** 15. DATE T.D. REACHED: **2/5/2007** 16. DATE COMPLETED: **9/29/2008** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5149'GL**

18. TOTAL DEPTH: MD **8,912** TVD \_\_\_\_\_ 19. PLUG BACK T.D.: MD **8,852** TVD \_\_\_\_\_ 20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD \_\_\_\_\_ PLUG SET: TVD \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

**24. CASING AND LINER RECORD (Report all strings set in well)**

HOLE SIZE	SIZE/GRADE	WEIGHT (#/L)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 H-40	32.3#		2,150		855			
7 7/8"	4 1/2 I-80	11.6#		8,912		1540			

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	6,034							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESAVERDE	5,648	6,642			5,648 6,642	0.36	117	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5648'-6642'	PMP 2504 BBLs SLICK H2O & 84,091# 30/50 OTTOWA SD

**29. ENCLOSED ATTACHMENTS:**

- ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

**30. WELL STATUS:**

**PROD**

**RECEIVED**

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 9/29/2008		TEST DATE: 10/3/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 0	GAS - MCF: 380	WATER - BBL: 30	PROD. METHOD: FLOWING
CHOKE SIZE: 15/64	TBG. PRESS. 439	CSG. PRESS. 645	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 380	WATER - BBL: 30	INTERVAL STATUS: PROD	

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,291 6,808				

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST  
 SIGNATURE *Sheila Upchego* DATE 10/20/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
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 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
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